

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P296215

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5656.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

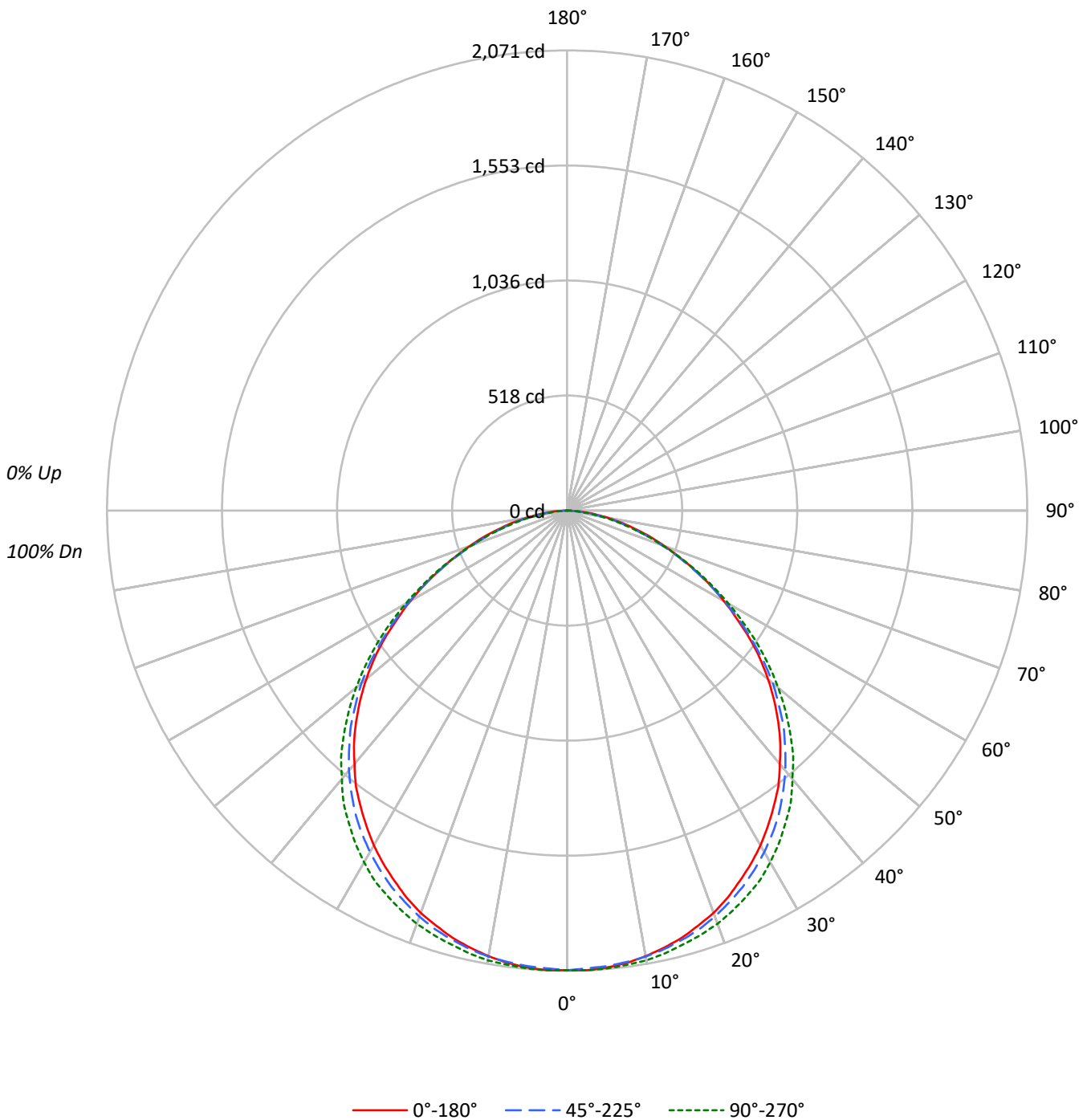
Input Watts (W): 55.056  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31																												
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2783	2783	2783
5°	2788	2779	2794
10°	2782	2785	2808
15°	2774	2786	2815
20°	2759	2783	2833
25°	2730	2775	2841
30°	2703	2757	2840
35°	2664	2731	2816
40°	2615	2683	2770
45°	2556	2621	2703
50°	2470	2529	2596
55°	2350	2381	2451
60°	2194	2206	2263
65°	2015	2002	2049
70°	1832	1781	1790
75°	1629	1539	1528
80°	1413	1264	1230
85°	1159	894	696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.2	3.5
10°-20°	565.5	10.0
20°-30°	863.2	15.3
30°-40°	1040.7	18.4
40°-50°	1061.2	18.8
50°-60°	908.2	16.1
60°-70°	625.6	11.1
70°-80°	320.7	5.7
80°-90°	74.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1624.9	28.7
0°-40°	2665.6	47.1
0°-60°	4635.0	81.9
0°-90°	5656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2064	2060	2058	2064	2068	196
15°	1991	1989	2000	2015	2021	562
25°	1839	1845	1869	1901	1914	848
35°	1622	1629	1663	1699	1714	1015
45°	1343	1345	1378	1412	1420	1035
55°	1002	996	1015	1036	1045	894
65°	633	618	629	633	644	629
75°	313	300	296	296	294	338
85°	75	66	58	52	45	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2068.4	2068.4	2068.4	2068.4	2068.4
2.5°	2070.6	2066.3	2062.0	2066.3	2070.6
5°	2064.1	2059.8	2057.7	2064.1	2068.4
7.5°	2053.4	2049.1	2049.1	2057.7	2062.0
10°	2036.2	2034.1	2038.4	2047.0	2055.5
12.5°	2014.8	2014.8	2021.2	2031.9	2040.5
15°	1991.2	1989.0	1999.8	2014.8	2021.2
17.5°	1959.0	1961.1	1976.2	1993.3	2001.9
20°	1926.8	1929.0	1944.0	1967.6	1978.3
22.5°	1886.0	1890.3	1907.5	1937.5	1948.3
25°	1838.8	1845.3	1868.9	1901.1	1913.9
27.5°	1791.6	1798.1	1823.8	1860.3	1877.5
30°	1740.1	1748.7	1774.5	1813.1	1828.1
32.5°	1682.2	1688.6	1720.8	1759.4	1774.5
35°	1622.1	1628.6	1662.9	1699.4	1714.4
37.5°	1562.0	1562.0	1596.4	1639.3	1654.3
40°	1489.1	1491.2	1527.7	1568.5	1577.1
42.5°	1420.4	1420.4	1452.6	1491.2	1506.3
45°	1343.2	1345.3	1377.5	1411.8	1420.4
47.5°	1263.8	1263.8	1291.7	1323.9	1332.5
50°	1180.1	1175.8	1208.0	1233.8	1240.2
52.5°	1094.3	1087.9	1113.6	1135.1	1143.6
55°	1002.0	995.6	1014.9	1036.4	1044.9
57.5°	905.5	896.9	918.3	937.7	941.9
60°	815.4	802.5	819.6	830.4	841.1
62.5°	725.2	710.2	723.1	729.5	738.1
65°	633.0	618.0	628.7	633.0	643.7
67.5°	545.0	534.3	536.4	542.9	547.1
70°	465.6	452.7	452.7	452.7	454.9
72.5°	392.7	373.3	371.2	373.3	373.3
75°	313.3	300.4	296.1	296.1	294.0
77.5°	251.0	233.9	231.7	227.4	223.1
80°	182.4	167.4	163.1	160.9	158.8
82.5°	126.6	113.7	109.4	105.1	98.7
85°	75.1	66.5	57.9	51.5	45.1
87.5°	27.9	25.7	21.5	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)